	Application No.	Applicant(s)	V
Notice of Allowability	10/774,380	NAGAISHI ET AL.	
	Examiner	Art Unit	
	Arnold Castro	3747	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED (5) or other appropriate comm RIGHTS. This application is	in this application. If not include nunication will be mailed in due	led course. THIS
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-18</u> .			
3. The drawings filed on 10 February 2004 are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Applicati	on No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the re	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subi INFORMAL PATENT APPLICATION (PTO-152) which gives			NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) including changes required by the Notice of Draftspe	rson's Patent Drawing Revie	w (PTO-948) attached	`
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not th	e back) of
7. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		nformal Patent Application (PT	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), ./Mail Date	
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 02-10-2004 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	/08), 7. ☐ Examiner's 8. ⊠ Examiner's	s Amendment/Comment s Statement of Reasons for All	owance
of Biological Material	9. 🗌 Other	<u>_</u> ·	

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

All claims contain limitations of a combustion chamber formed from a low 2. temperature wall surface and a high temperature wall surface, and a fuel supply mechanism which supplies volatile liquid fuel to the combustion chamber, the device or method comprising: a sensor or sensing a temperature of the low temperature wall surface; a sensor or sensing a temperature of the high temperature wall surface; and a programmable controller that calculates respectively a fuel amount adhering to the low temperature wall surface, a fuel amount adhering to the high temperature wall surface, and a first vaporized fuel amount that is supplied in the form of gas or mist of fine particles in the combustion chamber relative to a fuel amount supplied by the fuel supply mechanism; calculate a second vaporized fuel amount which vaporizes from the fuel adhering to the low temperature wall surface and burns, according to the temperature of the low temperature wall surface; calculate a third vaporized fuel amount which vaporizes from the fuel adhering to the high temperature wall surface and burns, according to the temperature of the high temperature wall surface; calculate a combustion fuel amount in the combustion chamber based on the first vaporized fuel amount, the second vaporized fuel amount, and the third vaporized fuel amount; calculate a target fuel injection amount based on the combustion fuel amount; and control a fuel amount to be supplied by the fuel supply mechanism according to the target fuel injection amount.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Castro whose telephone number is (703) 305-0039. The examiner can normally be reached on 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuen Henry can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold Castro Examiner

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AC

Primary Grace

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